Thomas Bouqin

Application No.: 10/587,804

Filed: June 7, 2007

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-2 (Canceled)

- 3. (Currently amended) A method for screening or selecting at least one cell expressing a polypeptide with a desired binding affinity to a ligand from cells expressing a library of polypeptide variants, comprising:
- a) providing a plurality of <u>eukaryotic</u> cells each comprising an expression cassette comprising a first polynucleotide encoding a polypeptide variant, at least one stop codon downstream of the first polynucleotide, and a second polynucleotide encoding a cell membrane anchoring peptide, a reporter peptide or an epitope tag downstream of the stop codon;
- b) cultivating the cells in the presence of a termination suppression agent under conditions that allow expression of the polypeptide variant, wherein the termination suppression agent is an aminoglycoside antibiotic; and
- c) <u>using FACS to select selecting</u> at least one cell expressing the polypeptide variant fused to a cell membrane anchoring peptide based on binding affinity of said polypeptide variant to said ligand.

Claims 4-5 (Cancelled)

6. (Previously presented) The method of claim 3, wherein the second polynucleotide encodes a cell membrane anchoring peptide, and wherein the at least one selected cell expresses a fusion protein comprising the polypeptide fused to a cell membrane anchoring peptide, the fusion protein being displayed at the surface of said cell.

Claims 7 - 14 (Cancelled)

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- 15. (Previously Presented) The method of claim 3, further comprising:
- d) cultivating at least one selected cell in the absence of a termination suppression agent to obtain expression of the polypeptide as a soluble polypeptide.

Claims 16 - 57 (Canceled)

58. (Previously Presented) The method of claim 6, wherein the cell membrane anchoring peptide is a GPI anchor.

Claims 59 – 62 (Cancelled)

63. (Previously Presented) The method of claim 4, wherein the aminoglycoside antibiotic is selected from the group consisting of G-418, gentamicin (gentamycin), paromomycin, hygromycin, amikacin, kanamycin, neomycin, netilmicin, paromomycin, streptomycin and tobramycin.

Claims 64 – 65 (Cancelled)

- 66. (New) The method of claim 3, wherein the second polynucleotide further encodes a reporter peptide.
- 67. (New) The method of claim 3, wherein the second polynucleotide further encodes an epitope tag.
 - 68. (New) The method of claim 3, wherein the at least one codon is UAA.
 - 69. (New) The method of claim 3, wherein the at least one codon is UGA.

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(New) The method of claim 3, wherein the cells are cultivated in the presence of a 70. butyrate salt.